

FEATURES

- Optical design to provide one-for-one replacement for 400 Watt metal halide high bays
- Advanced Thermal Management (ATM) provides optimized electrical component heat dissipation system for cool running ballast operation in unconditioned ambient spaces, your choice of T8 or T5HO—suspension mounting only
- LHV includes industry leading 5-year warranty at 65°C ambient operation for T5HO and 5-year warranty for T8 at 55°C for 277V and 50°C for 120V.
- Easy center-ballast cover allows tool-less access to electrical components without the removal of lamps, reflectors or hardware.
- Extremely low profile—only 2" overall height allows fixture to be installed without concern about obstructions
- Reflector options include uplight (recommended) or solid top with either narrow or wide distribution
- Product design accommodates quick and simple hanging systems including chain, tong, pipe hanger, or aircraft mounting
- Rotary locking lampholders secure lamp in position and conceal contacts
- Access cover in channel for easy wiring access
- UL listed, suitable for damp locations
- NEC/CEC-compliant ballast disconnect standard (not available with EL option)

PROJECT INFORMATION

Project Name _____

Type _____

Catalog No. _____

Date _____

HEAT DISSIPATION SYSTEM (ATM)

The installation of fluorescent fixtures with temperature sensitive electronic ballasts in unconditioned spaces creates the risk of premature ballast failures unless the fixture is equipped with a heat dissipation system to quickly remove heat that is harmful to ballasts. ATM (Advanced Thermal Management) was exclusively developed for VersaBay to provide the ultimate solution to ballast overheating and thermal issues.

CONSTRUCTION

Code gauge steel construction for a durable construction to withstand shipping and job site handling. End caps include hemmed edges for ease of handling. Fixture includes easy access to electrical components via removal channel cover. Tool-less access with one quarter-turn fastener. Oversized access plate conveniently mounted on back of channel for easy access to wiring compartment.

REFLECTOR

Your choice of multi-faceted specular aluminum which provides precise control for aisle lighting, high mounting heights, white aluminum for general area, or lower mounting heights. Includes a 25-year reflector warranty. Reflectors are available in solid top or with uplight component. Reflectors are securely mounted to fixture housing with screws. Reflector removal is not required to gain access to electrical components.

PERFORMANCE

With an optical system custom designed for maximum performance when using either T5HO or T8 lamps, VersaBay provides excellent distribution with fixture

efficiencies in excess of 99% for T5HO systems and 94% with T8 systems. The spacing criteria for the VersaBay is 0.9 for narrow distribution and 1.3 for wide distribution.

BALLASTS

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, sound rated A, magnetic or electronic ballasts. CEE NEMA Premium compliant.

ELECTRICAL

Standard class "P", thermally protected, autoresetting HPF ballast, sound rated A. CEE NEMA Premium compliant. All ballast leads extend a minimum of 6" through access location. NEC/CEC-compliant ballast disconnect is standard.

FINISH

Steel surfaces are painted with high gloss baked white enamel, applied over iron phosphate pre-treatment for maximum adhesion and rust resistance.

MOUNTING

Fixture to be suspended a minimum of 6" from solid surface. Mounting options include aircraft cable, tong hanger, pipe hanger, or chain.

CERTIFICATION

All luminaires are built to UL 1598 standards and bear appropriate UL and cUL or CSA labels. Damp location labeling is standard. Emergency-equipped fixtures labeled UL 924. Fixtures bear UL damp location listing up to 65°C for T5HO lamps and up to 55°C for T8 lamps.

ORDERING INFORMATION

EXAMPLE LHV4-854-M4RU-4EPU

LHV		4		- 8		-		-		-	
MODEL	NO. OF LAMPS IN CROSS SECTION	REFLECTOR		BALLAST		LAMPS INSTALLED		OPTIONS			
LHV VersaBay® Fluorescent High Bay	8 Eight	M4R Aluminum, 95% Reflective, Specular Silver (Narrow Beam)	4EP (2) 4-Lamp T5HO Electronic Programmed Start Ballast	T8	F0730 75 CRI, 3000K	GLR Fast Blow Fuse					
		GW Gloss White (Wide Beam)	4EHL (2) 4-Lamp T8 Electronic Instant Start High Output Ballast	F0735 75 CRI, 3500K	F0741 75 CRI, 4100K	F3C5 3-Conductor Cord					
			4EPHL (2) 4-Lamp Electronic T8 High Light Output, Programmed Start	F0750 75 CRI, 5000K	F0835 82 CRI, 3500K	F4C5 4-Conductor Cord					
				F0841 82 CRI, 4100K	F0850 82 CRI, 5000K	C6TL15 6' Cord and Twist-Lock™ Plug 15A (Add Voltage: 1=120, 2=277)					
						C6TL20 6' Cord and Twist-Lock™ Plug 20A (Specify Voltage 1=120, 2=277)					
						C6P151 6' Cord and Straight Blade Plug 15A, 120V					
						SP Side Panels Installed ²					
						EL141 1100-1400 Lumens, T8 1-Lamp					
						EL5H 725-1250 Lumens, T5HO 1-Lamp					
						WG Flat Wire Guard ²					
						CP Clear Polycarbonate Lens ²					
						CAW Clear Acrylic Lens and Flat Wire Guard ²					
						CPWG Clear Polycarbonate Lens and Flat Wire Guard ²					
						OS1 Factory Installed Occupancy Sensor, 120/277/347V, One Relay, All Lamps On/Off ¹					
						OS2 Factory Installed Occupancy Sensor, 120/277/347V, Two Relay, Two Ballasts Controlled Separately ¹					
						OS480 Factory Installed Occupancy Sensor, 480V, One Relay, All Lamps On/Off ¹					
						ODS1 Factory Installed Occupancy Sensor with daylight harvesting photosensor, 120/277/347V, one relay ¹					
						ODS2 Factory Installed Occupancy Sensor with daylight harvesting photosensor, 120/277/347V, two relay ¹					
						ODS480 Factory Installed Occupancy Sensor with daylight harvesting photosensor, 480V, one relay ¹					
						INDUSTRIALS / LHV4-8					
ACCESSORIES (ORDER SEPARATELY)						VOLTAGE					
LHVH Tong Hanger (Pair)					U 120V-277V						
LHVWG4-8 Wire Guard, 8-Lamp, White					347 347V						
LHVQM5 Aircraft Cable, 5' (Pair)					480 480V						
LHVQM10 Aircraft Cable, 10' (Pair)											
LHVSPM5 Single Point Mounting, includes pair of 5' aircraft cables											
LHVSP Side Panels (Pair) ²											
LHVOS1 Occupancy Sensor, 120/277/347V, One Relay ¹											
LHVOS2 Occupancy Sensor, 120/277/347V, Two Relays ¹											
LHVOS480 480V Occupancy Sensor, Aisle and 360° Lens ¹											
CSHC Chain Set, Two 14" Chains with Hooks											
C6TL15-120 Cord and Plug Kit (white), 6 ft., Twist Lock NEMA L5-15P, 15 amp, 120V											
C6TL15-277 Cord and Plug Kit (white), 6 ft., Twist Lock NEMA L7-15P, 15 amp, 277V											
C6P15-120 Cord and Plug Kit (white), 6 ft., Straight Blade NEMA 5-15P, 15 amp, 120V											

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PHOTOMETRIC DATA

Test 15188 Test Date 9/12/2008

LUMINAIRE DATA

Luminaire	LHV4-854-M4RU VersaBay Industrial 25" x 48" 8-Lamp with Slotted Specular Reflector
Ballast	(2) B454PUNVHB-E
Ballast Factor	1.00
Lamp	F54T5
Lumens per Lamp	4450
Watts	432
Mounting	Pendant
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.24 90° = 1.12
Luminous Opening in Feet	Length: 4.00 Width: 2.08 Height: 0.00

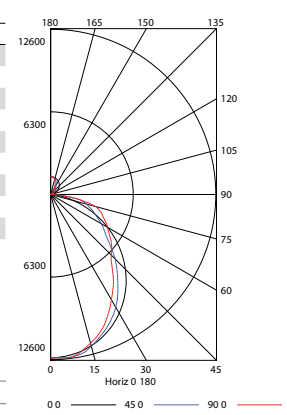
AVG. LUMINANCE (Candela/Sq. M.)

	0.0	22.5	45.0	67.5	90.0
0	16132	16132	16132	16132	16132
30	15626	15450	14837	14152	13841
40	15127	14646	13379	12683	12330
45	14761	14088	12710	11940	11953
50	14304	13391	11853	12030	12235
55	13743	12489	11413	12196	12390
60	13020	11600	11576	12523	12989
65	12074	10485	11703	13399	13846
70	10860	9846	12589	14779	15679
75	9353	9792	14191	17026	17780
80	7398	10766	16600	16667	16562
85	4498	12751	12885	11133	10554

COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50				0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
1	107	102	97	93	103	99	95	91	93	90	87	77	
2	97	88	82	76	94	86	80	74	81	76	72	64	
3	88	78	70	63	85	76	68	62	72	65	60	54	
4	81	69	60	53	78	67	59	53	64	57	51	46	
5	74	62	53	46	72	60	52	46	57	50	45	40	
6	69	56	47	40	66	54	46	40	52	45	39	35	
7	64	51	42	36	62	49	41	35	47	40	35	31	
8	60	46	38	32	58	45	37	32	43	36	31	28	
9	56	42	34	29	54	42	34	29	40	33	28	25	
10	52	39	31	26	51	38	31	26	37	30	26	23	

INDOOR CANDELA PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	9509	26.7	26.8
0-40	15144	42.5	42.6
0-60	25549	71.8	72.0
0-90	33205	93.3	93.5
0-180	35509	99.7	100.0

RCR = Room Cavity Ratio
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	99.7%
Luminaire Efficacy Rating (LER)	82
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.93 based on 3000 hrs. and \$0.08 per KWH

LUMINAIRE DATA

Luminaire	LHV4-832-M4RU VersaBay Industrial 25" x 48" 8-Lamp with Slotted Specular Reflector
Ballast	(2) GE432MAX-H/ ULTRA
Ballast Factor	1.15
Lamp	F32T8
Lumens per Lamp	2950
Watts	305
Mounting	Pendant
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.25 90° = 0.99
Luminous Opening in Feet	Length: 4.00 Width: 2.08 Height: 0.00

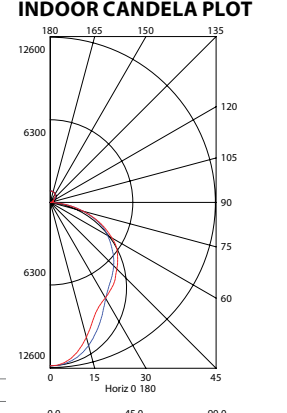
AVG. LUMINANCE (Candela/Sq. M.)

	0.0	22.5	45.0	67.5	90.0
0	9984	9984	9984	9984	9984
30	9709	8959	7823	7728	7780
40	9444	8085	7661	7966	8039
45	9254	7622	7747	8017	8125
50	9023	7310	7844	8208	8357
55	8720	7191	7908	8474	8679
60	8334	7191	8104	8673	8738
65	7834	7166	8363	8614	8694
70	7176	7176	8303	8507	8553
75	6288	7333	8098	8168	8138
80	5037	7167	7577	7428	7354
85	3028	6161	6131	5864	5730

COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50				0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
1	97	93	89	85	94	90	86	83	85	82	79	70	
2	88	81	74	69	85	78	73	68	74	69	65	58	
3	80	71	63	57	77	69	62	56	65	59	54	49	
4	73	62	54	48	71	61	53	48	58	51	46	41	
5	68	56	48	41	65	54	47	41	52	45	40	36	
6	62	50	42	36	60	49	41	36	47	40	35	31	
7	58	45	38	32	56	44	37	32	42	36	31	28	
8	54	42	34	28	52	41	33	28	39	32	28	25	
9	50	38	31	26	49	37	30	25	36	29	25	22	
10	47	35	28	23	46	34	28	23	33	27	23	20	

Test 15190 Test Date 9/17/08



ZONAL LUMEN SUMMARY

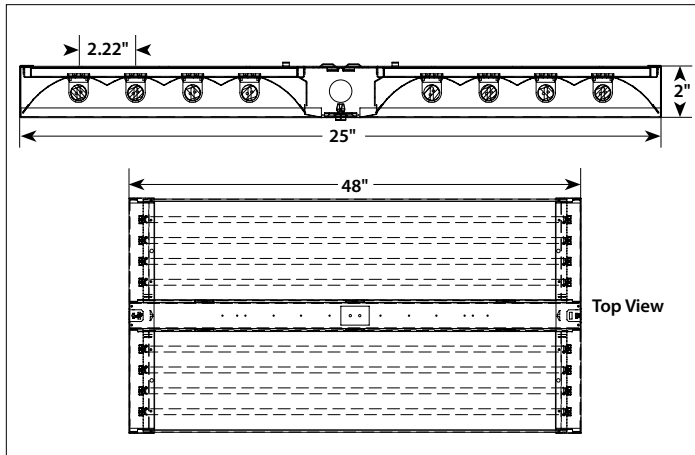
Zone	Lumens	% Lamp	% Fixt.
0-30	5462	23.1	25.4
0-40	8711	36.9	40.5
0-60	15300	64.8	71.2
0-90	19985	84.7	93.0
0-180	21494	91.1	100.0

RCR = Room Cavity Ratio
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

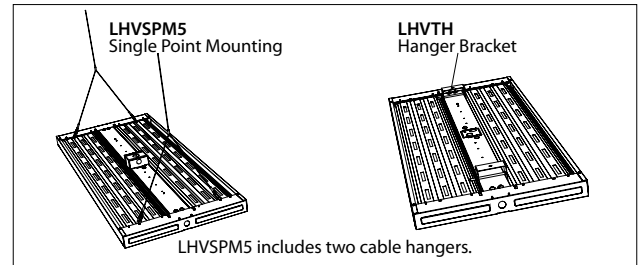
Total Luminaire Efficiency	91.1%
Luminaire Efficacy Rating (LER)	81
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.96 based on 3000 hrs. and \$0.08 per KWH

DIMENSIONAL DATA



NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

OPTIONAL HANGER BRACKETS



LHV AIRCRAFT CABLE

